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AmendedA. AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

10/01/2007 PCNONP 00000051 100460 10736128  
01 FC:1201 600.00 DA

12-14. (Canceled)

15. (Currently amended) A diversity signal combiner system for a digital communications system, comprising:
- a plurality of channels each for receiving a channel signal of a plurality of channel signals from a spatially diverse antenna array element;
  - a plurality of downconverters each on one of the plurality of channels for downconverting a corresponding channel signal to baseband;
  - a co-phasing software block for resolving phase differences among the plurality of channel signals after the plurality of channel signals are downconverted by the plurality of downconverters;
  - a combiner for combining the plurality of channel signals by weighting and delaying each of the plurality of channel signals after the co-phasing software block resolves the phase differences among the plurality of channel signals;
  - a symbol synchronizer for determining symbol boundaries of the plurality of channel signals after the combiner combines the plurality of channel signals to enable a system signal to be accurately demodulated to accurately represent transmitted data; and
  - an equalizer for receiving the plurality of channel signals from the combiner, for providing channel estimates of complex channel gain when necessary, and for removing channel